



# UNIFIED COUNCIL

An ISO 9001:2015 Certified Organisation



## UNIFIED CYBER OLYMPIAD (UPDATED)

CLASS - 6

Question Paper Code : UC351

### KEY

1. C	2. B	3. D	4. A	5. C	6. C	7. B	8. D	9. A	10. C
11. A	12. B	13. B	14. A	15. B	16. D	17. A	18. A	19. B	20. C
21. B	22. C	23. D	24. B	25. C	26. B	27. C	28. D	29. D	30. D
31. B	32. A	33. D	34. B	35. C	36. C	37. A	38. C	39. C	40. B
41. A	42. D	43. D	44. B	45. B	46. C	47. B	48. C	49. C	50. D

### SOLUTIONS

#### MENTAL ABILITY

1. (C) -134 is the biggest among the given integer

$$2. (B) \text{ LHS} = \frac{25}{4} \times \frac{16}{3} + \frac{15}{8} - \frac{17}{5} \times \frac{5}{6} = \frac{100}{3} +$$

$$\frac{15}{8} - \frac{17}{6} = \frac{1600 + 90 - 136}{48}$$

$$= \frac{1554}{48} = \frac{259}{8}$$

$$= 32\frac{3}{8}$$

$$3. (D) \frac{3}{4} = \frac{27}{36} = \frac{12}{16} = \frac{144}{192}$$

4. (A) Cost of  $1\frac{2}{3}$  kg chocolates

$$= ₹ \frac{184\frac{7}{8}}{\frac{1}{4}} \times 1\frac{2}{3}$$



$$= ₹ \frac{1479}{8} \times 4 \times \frac{5}{3}$$

$$= ₹ 7395 = ₹ 1232\frac{1}{2}$$

5. (C)  $2019.2019 - 9201.19 - 1029.2 = -8211.1881$

6. (C) Amount paid to number of packets =  $\frac{30}{6}$   
 $\times 5 = 25$
7. (B) Perimeter =  $2(l + b) = 2(30 \text{ m} + 90 \text{ cm})$   
 $= 2(30 \text{ m} + 0.9 \text{ m})$   
 $= 2(30.9 \text{ m})$   
 $= 61.8 \text{ m}$
8. (D)  $x^2 + 2xy - 3y^2 - 2x^2 + 4xy + 5y^2 = -x^2 + 6xy + 2y^2$
9. (A) Breadth of the rectangle =  $\frac{\text{Area}}{\text{length}} = \frac{216 \text{ m}^2}{18 \text{ m}} = 12 \text{ m}$   
Perimeter =  $2(l + b) = 2(18 \text{ m} + 12 \text{ m}) = 60 \text{ m}$
10. (C) LCM of fractions =  $\frac{\text{LCM of numerators}}{\text{HCF of denominators}} = \frac{30}{1} = 30$
11. (A) A triangular pyramid has 4 faces
12. (B) Given  $60 + x = 2(28 + x)$   
 $60 + x = 56 + 2x$   
 $60 - 56 = 2x - x = x$   
 $x = 4$   
After 4 years sravya age is twice of her son
13. (B) LHS =  $ab - ac - bc + ab + ac - bc = 2ab - 2bc = 2b(a - c)$
14. (A) Number of cars =  $7000 \times \frac{19}{50} = 2,660$   
Number of motor cycles =  $7000 \times \frac{1}{4} = 1,750$   
 $\therefore$  Number of cars more than motor cycles =  $2660 - 1750 = 910$
15. (B) Let the capacity of the container be  $x$  litres  
 $\therefore \frac{3}{4}x = 12 \text{ litres}$   
 $x = 12 \text{ litres} \times \frac{4}{3} = 16 \text{ litres}$

## REASONING

16. (D) F is the 6<sup>th</sup> letter in the series and square of 6 is  $36 + 1 = 37$ . I is the ninth letter and the square of 9 is  $81 + 1 = 82$ .
17. (A) Line move 90° clockwise direction. Dot move 1 position clockwise direction.
18. (A) OFFER is coded as 75539.
19. (B) 
20. (C) The word PEBBLE cannot be made from the given word. There is only 1 'B' in the given word.
21. (B) The first, fourth, seventh and eleventh letters of the word 'SPHERVLVODS'  
The word formed is LESS  
The second letter is E.
22. (C) 
23. (D) Radhika rank from top  $12 - 3 = 9$   
total number of students = 36  
Radhika rank from last =  $36 - 9 + 1 = 28$
24. (B) Peak, mountain, mound represent above the surface of the land. Whereas valley represents below the surface of the land.
25. (C)  $3 + 2 = 5$ ,  $5 \times 5 = 25$   
 $8 + 2 = 10$ ,  $10 \times 10 = 100$   
 $9 + 4 = 13$ ,  $13 \times 13 = 169$
26. (B) Grandmother, mother, 4 wives, 8 daughters (2 each for 4 sons). Hence 14 females.
27. (C) The figure in option (C) appears when the given image is folded.
28. (D) A person will stand on the floor and floor is called roof. So, a person will stand on the roof.
29. (D) Every box contains 3 lines, difference between above horizontal line objects below horizontal line objects is equal to 2.
30. (D) RSTOUSER = TROUSERS

### COMPUTERS

- 31. (B) Mainframe, minicomputer and notebook are types of computers, where as maxframe is not a computer.
- 32. (A) While executing a programme the processor uses main memory data.
- 33. (D) Speed, precision, reliability ,versatility and memory are the characteristics of a computer.
- 34. (B) Single click the boudary to the right of the column heading and drag.
- 35. (C) Option from tools menu.
- 36. (C) To insert a subsequent endnotes, press CTRL + ALT + D
- 37. (A) You can make changes to the picture using the picture tools.
- 38. (C) Rotate
- 39. (C) The quickest way to copy formatting from a selected cell to two other cells on the same worksheet is to click format painter on the formatting toolbar twice then click in each cell you want to copy the formatting to.
- 40. (B) The first tool used for searching content on the internet was Archie.
- 41. (A) a-iv, b-iii, c-i, d-ii
- 42. (D) Website is the collection of HTML documents, graphic files, audio and video files.

- 43. (D) “Ray Tomlinson” is credited with inventing email in 1972. Like many of the Internet inventors, Tomlinson worked for Bolt Beranek and Newman as an ARPANET contractor. He picked the @ symbol from the computer keyboard to denote sending messages from one computer to another.

- 44. (B) Ctrl + Enter

- 45. (B) Bing is a web search engine owned and operated by microsoft.

### ENGLISH

- 46. (C) Option (C) is the correct answer. A ‘bench’ of judges.

- 47. (B) is the correct option. ‘Sow’ apart from being an ‘infinitive/verb’ it is the noun for the female of a boar.

- 48. (C) is the correct option. ‘Cunning’ is an adjective. There is no verb as ‘cun’ to form a gerund like that.

- 49. (C) is the correct option. The word ‘ink’ cannot attract any article as it is an uncountable noun. Preposition ‘with’ is the correct one to go there. The word ‘angry’ takes prepositions ‘with’ and ‘about’ as per the context, object/subject case and contextual usage. The word ‘that’, correctly fits as the one referring to something that has already been said, as a determiner.

- 50. (D) Option (D) is the correct answer as the antonym of the word ‘wind’, when considered as a verb.

===== The End =====